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GKF 600 Professional

BOSCH

Originalbetriebsanleitung
Original instructions
Notice originale
Manual original
Manual original
Istruzioni originali
Oorspronkelijke gebruiksaanwijzing
Original brugsanvisning
Bruksanvisning i original
Original driftsinstruks
Alkuperäiset ohjeet
Πρωτότυπο οδηγιών χρήσης
Orijinal işletme talimatı
Instrukcją oryginalną
Původním návodem k používání
Pôvodný návod na použitie
Eredeti használati utasítás
Подлинник руководства по эксплуатации
Оригінальна інструкція з експлуатації
Instrucţiuni de folosire
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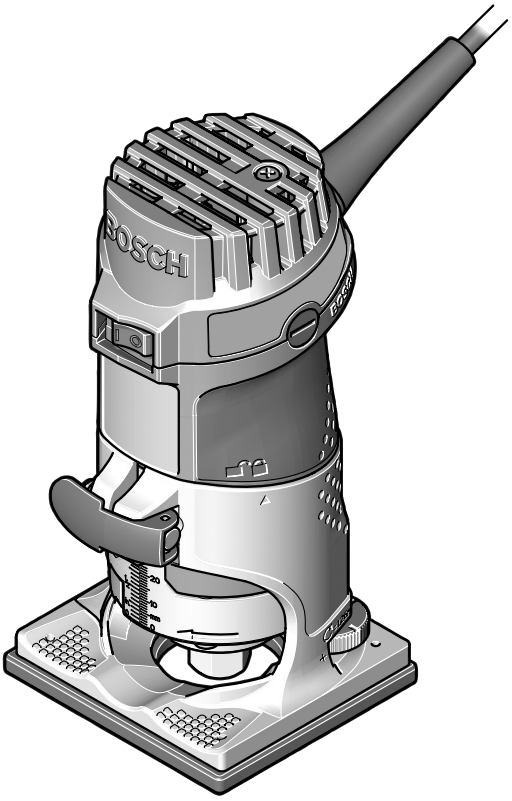

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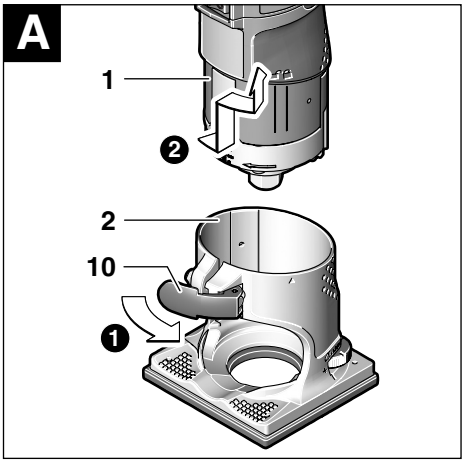
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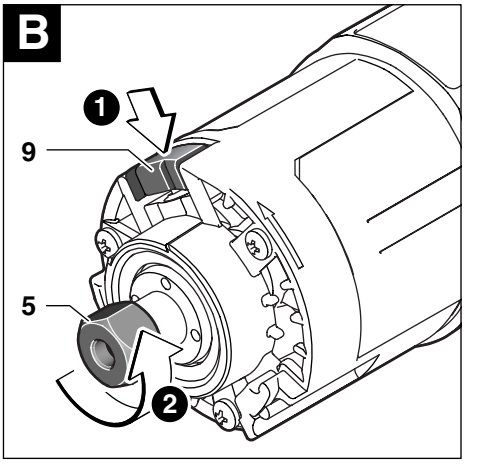
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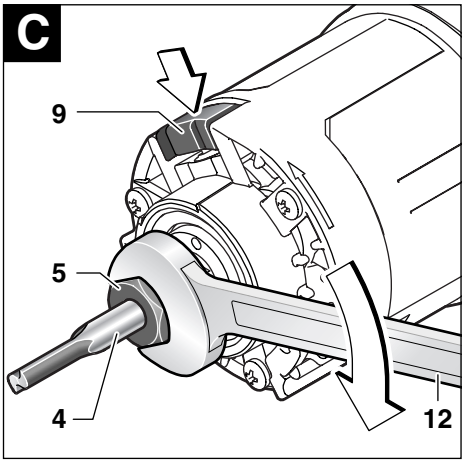
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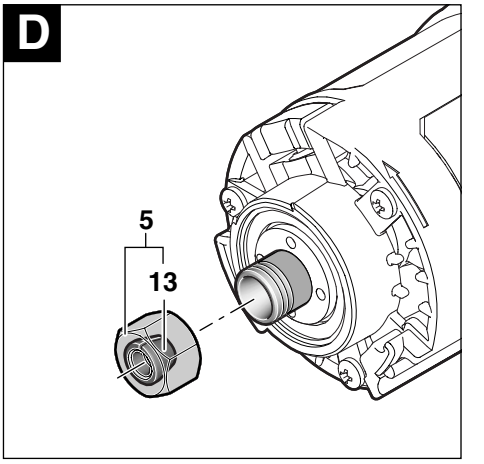
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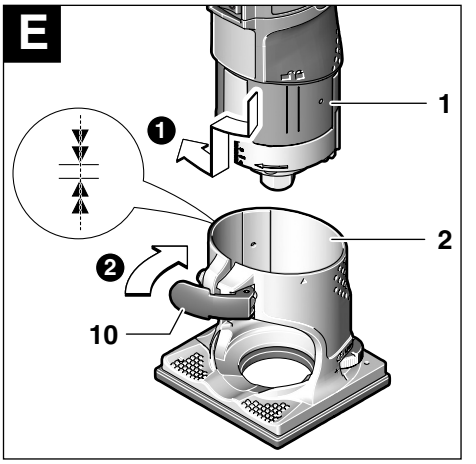
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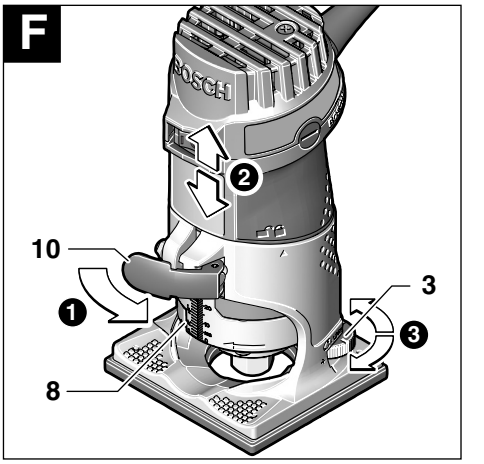
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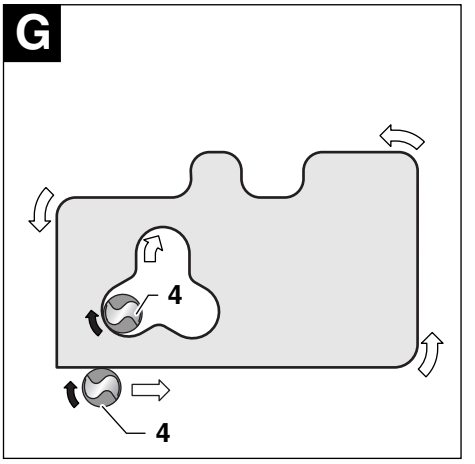
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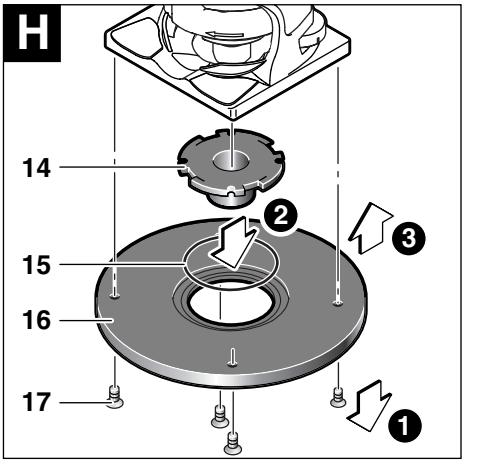
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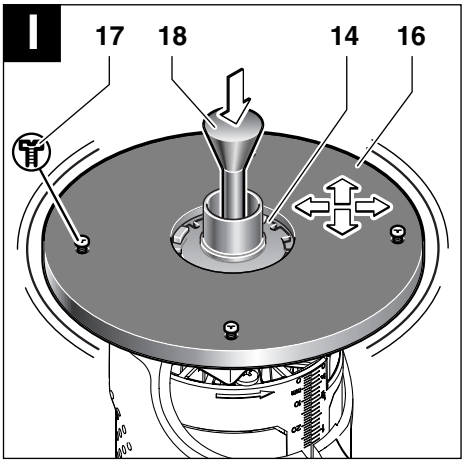
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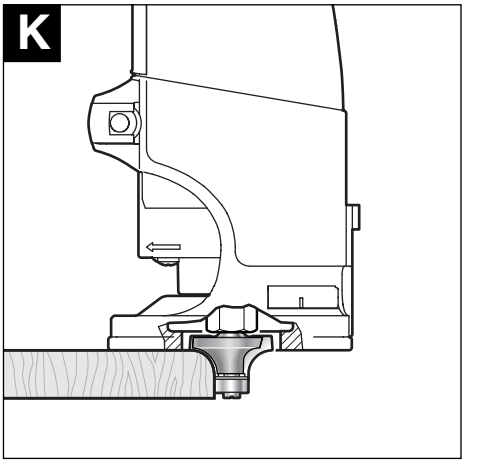
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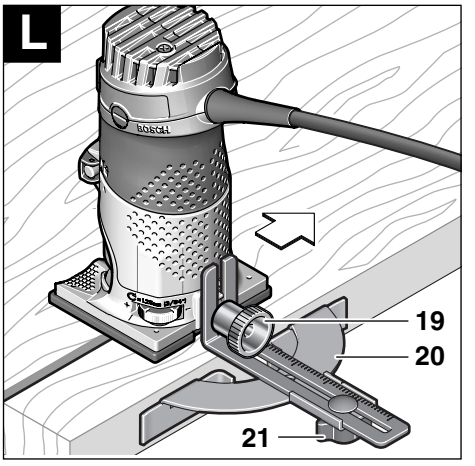
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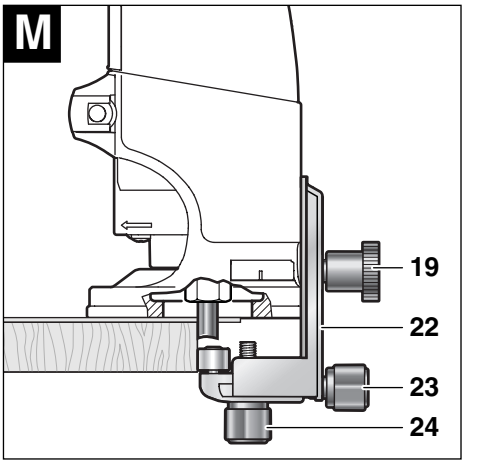
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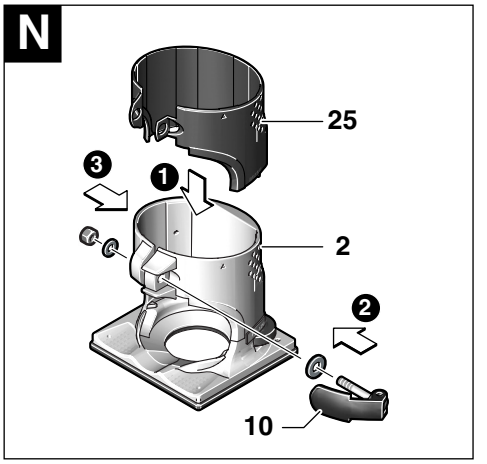
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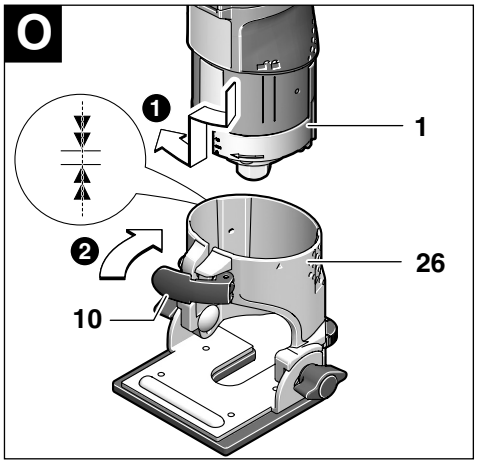
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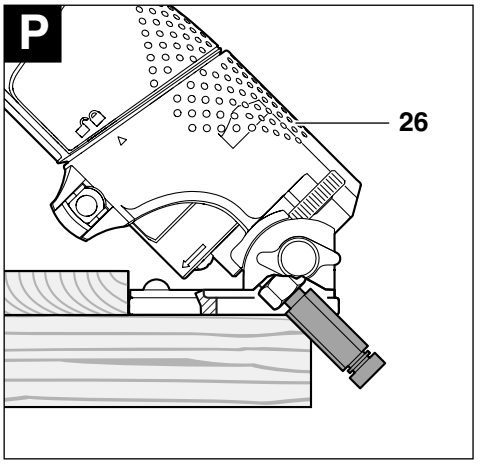
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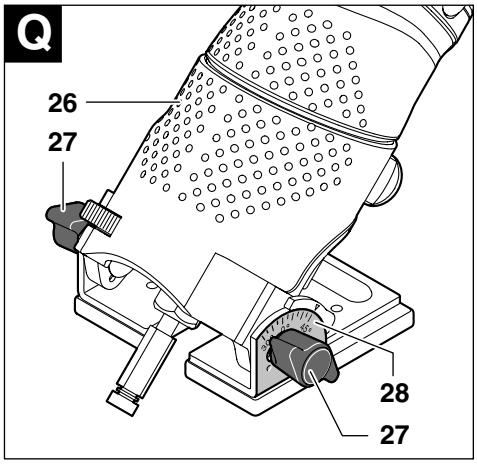
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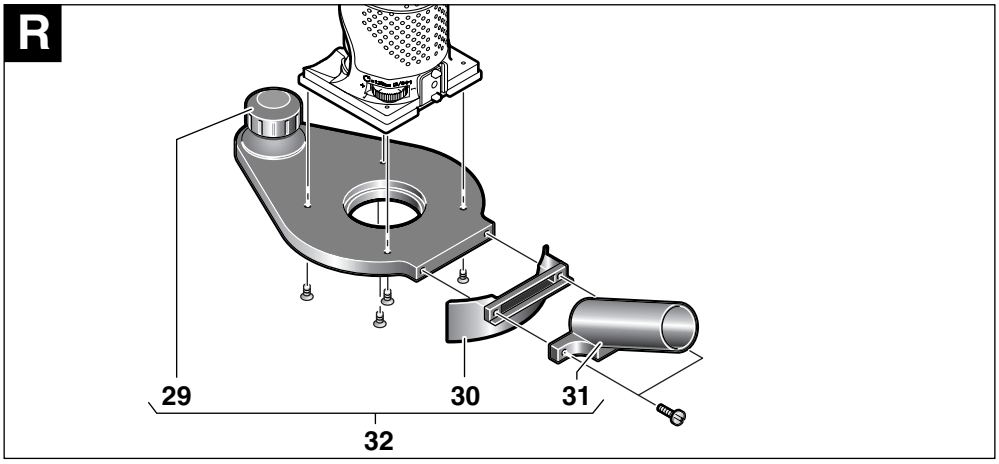
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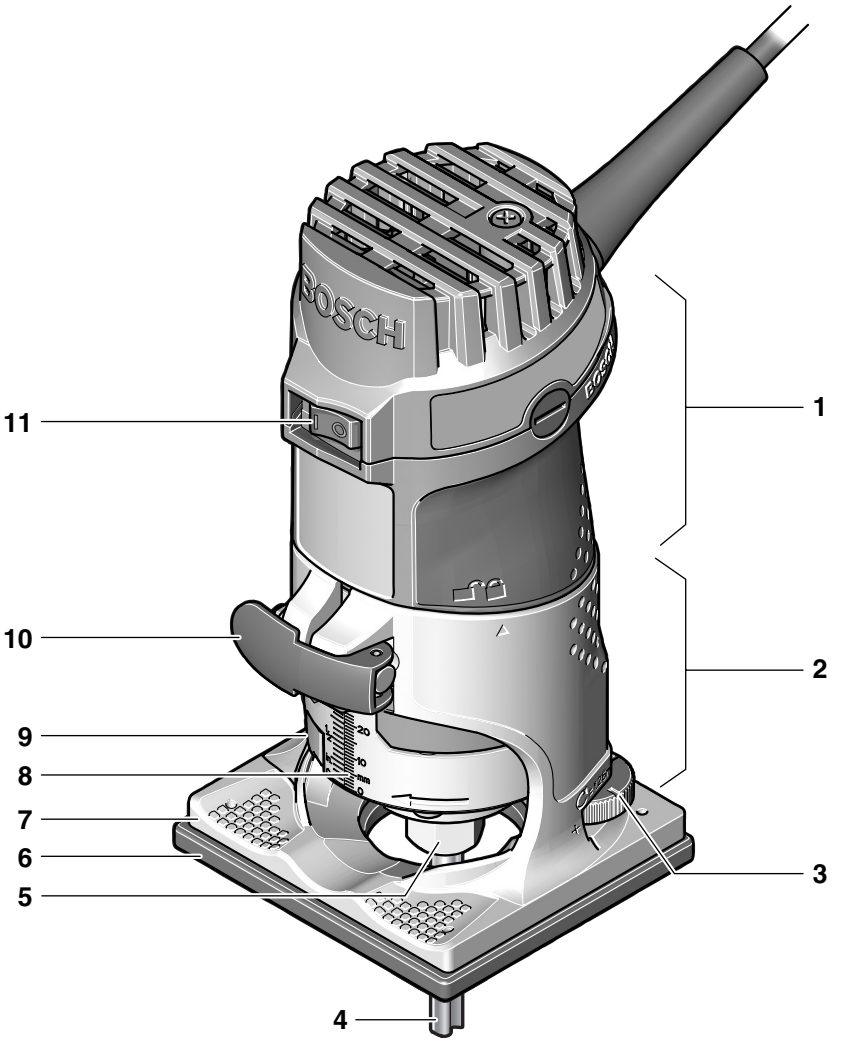


GKF 600
Professional

Tool Specifications

Laminate trimmer		GKF 600 Professional
Article number		3 601 F0A 1..
Rated power input	[W]	600
No-load speed	[rpm]	33 000
Tool holder		6 mm/ 8 mm/ $^1/_4$" (only UK)
Weight according to EPTA-Procedure 01/2003	[kg]	1.5
Protection class		⧈ / II

Please observe the article number on the type plate of your machine. The trade names of the individual machines may vary.

The values given are valid for nominal voltages [U] of 230/240 V. For lower voltages and models for specific countries, these values can vary.

Noise/Vibration Information

Measured values determined according to EN 60 745.

Typically the A-weighted noise levels of the machine are: sound pressure level 84 dB (A); sound power level 95 dB (A).
Uncertainty K = 3 dB.
Wear hearing protection!

Overall vibrational values (vector sum of three directions) determined according to EN 60745:
Vibrational emission value a_h=4.5 m/s^2, uncertainty K=1.5 m/s^2.

⚠ WARNING The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another.
The vibration emission level will vary because of the ways in which a power tool can be used and may increase above the level given in this information sheet. This could lead to a significant underestimate of exposure when the tool is used regularly in such a way.
NOTE: To be accurate, an estimation of the level of exposure to vibration experienced during a given period of work should also take into account the times when the tool is switched off and when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Declaration of Conformity CE

We declare under our sole responsibility that the product described under „Technical data“ is in conformity with the following standards or standardization documents: EN 60745 according to the provisions of the directives 2004/108/EC, 98/37/EC (until 28 Dec 2009), 2006/42/EC (from 29 Dec 2009).

Technical documents at:
Robert Bosch GmbH, PT/ESC,
D-70745 Leinfelden-Echterdingen

Dr. Egbert Schneider
Senior Vice President
Engineering

Dr. Eckerhard Strötgen
Head of Product
Certification

03.12.2007, Robert Bosch GmbH, Power Tools Division
D-70745 Leinfelden-Echterdingen

Product Features

While reading the operating instructions, unfold the graphics page for the machine and leave it open.

The numbering of the product features refers to the illustration of the machine on the graphics page.

1 Motor unit
2 Routing base
3 Thumbwheel for depth-of-cut fine adjustment
4 Router bit*
5 Collet chuck
6 Guide plate
7 Base plate
8 Scale for depth-of-cut adjustment
9 Spindle lock button
10 Clamping lever
11 On/Off switch
12 Open-end spanner
13 Collet
14 Guide bushing*
15 Rubber ring
16 Guide plate, round*
17 Fastening screw for base plate (4 x)
18 Centring pin*
19 Knurled screw for attachment of side stop
20 Parallel guide

21 Wing bolt for parallel guide

22 Roller guide

23 Wing bolt for horizontal alignment of the roller guide

24 Wing bolt for locking of the horizontal alignment

25 Base cover sleeve*

26 Tilt base*

27 Wing bolt for angle adjustment

28 Scale for routing angle adjustment

29 Handle*

30 Extraction hood*

31 Extraction adapter*

32 Side-handle subbase*

*** Illustrated or described accessories are not included as standard delivery.**

For Your Safety

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

Additionally, the general safety instructions either in the enclosed booklet or those added in the centre of these operating instructions must be observed.

- **The allowable speed of the tool insert must be at least as high as the maximum speed stated on the machine.** Accessories driven in excess of their allowable speed can be destroyed.
- **Routing tools or other tool inserts must fit exactly in the tool holder (collet) of your machine.** Tool inserts that do not fit precisely in the tool holder of the machine rotate irregularly, vibrate heavily and can lead to loss of control.
- **Guide the machine against the workpiece only when it is switched on.** Otherwise there may be danger of kickback when the tool insert jams in the workpiece.
- **Keep your hands away from the routing area and the routing tool. Hold the auxiliary handle or the motor housing with your second hand.** When both hands hold the machine, they cannot be injured by the routing tool.
- **Never cut over metal objects, nails or screws.** The routing tool can become damaged and lead to increased vibrations.
- **Hold the power tool only by the insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own power cord.** Contact with a “live” wire will also make exposed metal parts of the power tool “live” and shock the operator.
- **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.
- **Do not use dull or damaged router bits.** Dull or damaged router bits cause increased friction, can become jammed and lead to imbalance.
- **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more securely than by hand.
- **Do not work materials containing asbestos.** Asbestos is considered carcinogenic.
- **Take protective measures when dust can develop during working that is harmful to one’s health, combustible or explosive.** Example: Some dusts are regarded as carcinogenic. Wear a dust mask and work with dust/chip extraction when connectable.
- **Always wait until the machine has come to a complete stop before placing it down.** The tool insert can jam and lead to loss of control over the power tool.
- **Do not use a machine with a damaged mains cable. Do not touch the damaged cable and pull the mains plug when the cable is damaged while working.** Damaged cables increase the risk of an electric shock.

Intended Use

The machine is intended for trimming edges in wood, plastic and light building materials. It is also suitable for routing of grooves, profiles and slots as well as for contour routing.

Mounting

■ Before any work on the machine itself, pull the mains plug.

Disassembling the Motor Unit (see figure A)

For disassembly of the motor unit **1**, open the clamping lever **10** and turn the routing base **2** so that the "▲" mark is in line with the "🔓" symbol on the motor unit. Then pull the motor unit **1** upward to the stop, turn the motor unit **1** in anticlockwise direction to the stop and pull the motor unit **1** out of the routing base **2**.

Router Bit Selection

Depending on processing and application, router bits are available in the most different designs and qualities:

Router bits made of high speed steel (HSS) are suitable for the machining of soft materials, e. g., softwood and plastic.

Carbide tipped router bits (HM) are especially suitable for hard and abrasive materials, e. g., hard wood.

Original router bits from the extensive Bosch accessories program are available at your specialist shop.

Inserting Router Bits (see figures B + C)

■ Before any work on the machine itself, pull the mains plug.

■ It is recommended to wear protective gloves when inserting or replacing router bits.

Disassemble the motor unit as described in the respective section.

Press the spindle lock button **9** and keep it pressed. Possibly turn the spindle by hand until the lock engages.

■ Press the spindle lock button only when at a standstill.

Loosen the collet chuck **5** with an open-end spanner **12** (size 18 mm) several turns, but do not unscrew the tightening nut.

Insert the shank of the router bit at least 20 mm (shank length) into the collet.

Tighten the collet chuck **5** with the open-end spanner **12** (size 18 mm) and release the spindle lock button **9**.

⚠ **Do not tighten the tightening nut of the collet chuck without a router bit inserted.**

Replacing the Collet (see figure D)

Depending on the routing tool to be used, different collets can be inserted, see "Tool Specifications".

The collet **13** must have somewhat play when seated in the tightening nut. The collet chuck **5** (tightening nut with collet) must assemble easily. Should the collet chuck **5** be damaged, replace immediately.

Press the spindle lock button **9** and keep it pressed. Possibly turn the spindle by hand until the lock engages.

Unscrew the collet chuck **5**.

Release the spindle lock button **9**.

Clean the tool holding fixture and the collet **13** using a soft brush or by blowing out with compressed air.

Tighten the collet chuck **5** again.

⚠ **Do not tighten the tightening nut of the collet chuck without a router bit inserted.**

Mounting the Motor Unit (see figure E)

To mount the motor unit **1**, open the clamping lever **10** and bring the two double arrows on the motor unit **1** and the routing base **2** into alignment. Push the drive unit **1** into the routing base **2** and turn the motor unit **1** in clockwise direction until the "▲" mark on the routing base **2** points against the line below the "🔓" symbol on the motor unit **1**. Push the drive unit **1** into the routing base **2**.

After mounting is completed, position the "▲" mark of the routing base **2** in line with the "🔒" symbol on the motor unit **1** and lock the clamping lever **10**.

■ After mounting, always check if the motor unit is seated tightly in the routing base. The pretension of the clamping lever can be changed by readjusting the nut.

Readjusting the Clamping Lever

To readjust the tightening tension, open the clamping lever **10**, turn the nut of the clamping lever approx. 45° in clockwise direction using an open-end spanner and then lock the clamping lever **10** again. Check if the motor unit **1** is clamped securely. Do not over tighten the nut.

Starting Operation

Observe correct mains voltage: The voltage of the power source must agree with the voltage specified on the nameplate of the machine. Equipment marked with 230 V can also be connected to 220 V.

Switching On and Off

To **start** the machine, set the On/Off switch **11** to **I**.

To **switch off** the machine, set the On/Off switch **11** to **0**.

Setting the Depth-of-cut (see figure F)

- The adjustment of the depth-of-cut may only be carried out when the trimmer is switched off.

Place the trimmer on the workpiece to be worked.

Open the clamping lever **10**, set the "▲" mark on the routing base **2** to the "🔓" symbol and slowly lower the motor unit until the router touches the workpiece. Fix the motor unit in this position by locking the clamping lever **10**.

Read the measuring value off the scale **8** and note it down (zeroing). Add the desired depth-of-cut to this value.

Open the clamping lever **10** and set the motor unit to the calculated scale value. Set the "▲" mark on the routing base **2** to the "🔒" symbol and lock the clamping lever **10** again.

Check the carried out depth-of-cut adjustment with a trial cut and correct it, if necessary.

For fine adjustment of the depth-of-cut, set the "▲" mark on the motor unit to the "🔒" symbol with the clamping lever **10** open. Adjust the desired depth-of-cut with the thumbwheel **3**. Afterwards, lock the clamping lever **10** to securely lock the motor unit in the routing base.

Operating Instructions

Direction of Feed (see figure G)

The feed motion of the router must always be carried out against the rotation direction of the router bit (up-grinding).

When routing in the rotation direction of the router bit (down-cutting), the machine can break loose, eliminating control by the user.

Routing Process

- **Use the machine only with the routing base mounted.** Loss of control over the machine can cause injuries.
- Before beginning the routing procedure, check if the "▲" mark on the routing base **2** is positioned in line with the "🔒" symbol on the motor unit **1**.

Note: Take into consideration that the router bit **4** always extends out of the base plate **7**. Do not damage the template or the workpiece.

Adjust the depth-of-cut as described previously.

Switch the machine on and guide it to the location subject to working.

Carry out the routing procedure applying uniform feed.

Switch the machine off after finishing the routing process. Do not place the power tool down until after the router bit has come to a complete stop.

Routing with Guide Bushing

The guide bushing **14** enables template and pattern routing on workpieces.

Inserting guide bushing 14 (see figure H)

Unscrew the four fastening screws on the bottom side of the guide plate **6** and remove the guide plate **6**. Insert the rubber ring **15** and then the guide bushing **14** into the round guide plate **16** as shown in the figure. Screw the round guide plate **16** to the base plate **7** with the countersunk screws provided.

Adjusting/centring the guide bushing (see figure I)

To ensure that the distance from router bit centre and guide bushing edge is uniform, the guide bushing and the guide plate can be adjusted to each other, if required.

Loosen the fastening screws **17** by approx. 2 turns so that the round guide plate **16** can be moved freely.

Insert the centring pin **18** into the tool holder as shown in the figure. Hand-tighten the tightening nut so that the centring pin can still be moved.

Align the centring pin **18** and the guide bushing **14** by lightly moving the round guide plate **16**.

Tighten the fastening screws **17** again and remove the centring pin **18** from the tool holder.

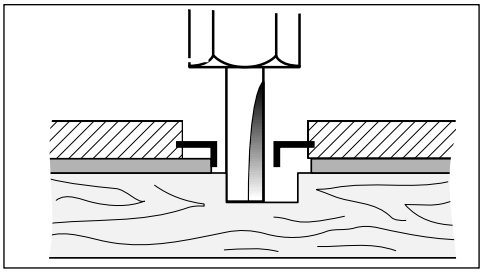
Routing Process

⚠ **Select a router bit with a smaller diameter than the inside diameter of the guide bushing.**

Place the machine with the guide bushing **14** against the template.

Guide the machine with projecting guide bushing along the template, applying light sideward pressure.

Note: The template must have a minimum thickness of 8 mm, due to the projecting height of the guide bushing.



Shaping or Molding Applications (see figure K)

For shaping or molding applications without the use of a parallel guide, the router must be equipped with a pilot or a ball bearing.

Guide the machine from the side to the workpiece until the pilot or the ball bearing of the trimmer faces against the workpiece edge to be worked. Guide the machine alongside the edge of the workpiece, ensuring rectangular support. Excessive pressure can damage the edge of the workpiece.

Routing with Parallel Guide (see figure L)

Fasten the parallel guide **20** to the routing base with the knurled screw **19**.

Adjust the desired depth setting on the parallel guide with wing bolt **21**.

Guide the machine with uniform feed and sideward pressure against the parallel guide **20** alongside the workpiece edge.

Routing with the Roller Guide (see figure M)

The roller guide **22** is used for routing edges with router bits without pilot or ball bearing.

Fasten the roller guide **22** to the routing base with the knurled screw **19**.

Guide the machine with uniform feed alongside the workpiece edge.

Lateral Clearance

In order to change the amount of material removal, the lateral clearance between workpiece and the guide roller of the roller guide can be adjusted.

Loosen wing bolt **24**, adjust the desired lateral clearance by turning wing bolt **23** and tighten wing bolt **24** again.

Height

Adjust the vertical alignment of the roller guide depending on the router bit in use and the thickness of the material to be worked.

Loosen the knurled screw **19** on the roller guide, slide the roller guide to the desired position and tighten the knurled screw again.

Assembling the Base Cover Sleeve (see figure N)

For assembly of the base cover sleeve **25**, remove the clamping lever **10**. Place the base cover sleeve **25** onto the routing base **2** from above and reassemble the clamping lever **10** again in such a manner that the motor unit **1** is held securely in the routing base when the clamping lever is locked.

Routing with Tilt Base (see figures O – Q)

The tilt base **26** is particularly suitable for flush routing of laminated edges at hard to reach locations, for routing special angles as well as for bevelling edges.

When bevelling edges using the tilt base **26**, the router bit must be equipped with a pilot or a ball bearing.

The tilt base is mounted according to the instructions for the routing base **2**.

To achieve precise angles, the tilt base **26** is equipped with adjustment notches in steps of 7.5°. The complete adjustment range is 75°; the tilt base inclines to 45° toward the front and 30°

toward the rear. Loosen both wing bolts **27** to adjust the angle. Adjust the desired angle using the scale **28** and tighten wing bolts **27** again.

Routing with the Side-handle Subbase (see figure R)

The side-handle subbase **32** can be mounted in place of guide plate **6**. It offers an additional handle **29** as well as a connection possibility for dust extraction.

Unscrew the four fastening screws on the bottom side of the guide plate **6** and remove the guide plate. Screw the side-handle subbase **32** to the base plate as shown in the figure using the countersunk screws provided.

To connect dust extraction, screw the extraction adapter **31** to the side-handle subbase **32** with the two screws. Connect an extraction hose with a diameter of 19/35 mm to the extraction adapter **31**.

To ensure optimum dust extraction, the extraction adapter **31** should be cleaned regularly.

For working edges, additionally use the extraction hood **30**. Mount the extraction hood as shown in the figure.
For working smooth face surfaces, remove the extraction hood **30**.

The machine can be plugged directly into the receptacle of a Bosch all-purpose vacuum cleaner with remote starting control. The vacuum cleaner starts automatically when the machine is switched on.

The vacuum cleaner must be suitable for the material to be worked.
When vacuuming dry dust that is especially detrimental to health or carcinogenic, use a special vacuum cleaner.

Maintenance and Cleaning

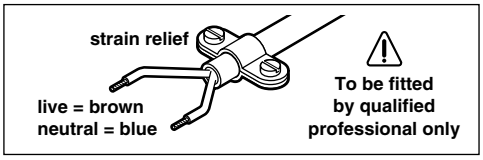
- Before any work on the machine itself, pull the mains plug.
- For safe and proper working, always keep the machine and its ventilation slots clean.

If the machine should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an authorized after-sales service agent for Bosch power tools.

In all correspondence and spare parts orders, please always include the 10-digit article number given on the nameplate of the machine.

WARNING! Important instructions for connecting a new 3-pin plug to the 2-wire cable.

The wires in the cable are coloured according to the following code:



Do **not** connect the blue or brown wire to the earth terminal of the plug.

Important: If for any reason the moulded plug is removed from the cable of this machine, it must be disposed of safely.

Disposal

Power tools, accessories and packaging should be sorted for environmental-friendly recycling.

Only for EC countries:

Do not dispose of power tools into household waste!
According to the European Directive 2002/96/EC on waste electrical and electronic equipment and its incorporation into national law, power tools that are no longer suitable for use must be separately collected and sent for recovery in an environmental-friendly manner.

After-Sales Service and Customer Assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:
www.bosch-pt.com
Our customer consultants answer your questions concerning best buy, application and adjustment of products and accessories.

Great Britain

Robert Bosch Ltd. (B.S.C.)
P.O. Box 98
Broadwater Park
North Orbital Road
Denham
Uxbridge
UB 9 5HJ

Tel. Service: +44 (0844) 736 0109

Fax: +44 (0844) 736 0146

E-Mail: SPT-Technical.de@de.bosch.com

Ireland

Origo Ltd.
Unit 23 Magna Drive
Magna Business Park
City West
Dublin 24

Tel. Service: +353 (01) 4 66 67 00

Fax: +353 (01) 4 66 68 88

Australia, New Zealand and Pacific Islands

Robert Bosch Australia Pty.Ltd.
Power Tools
Locked Bag 66
Clayton South VIC 3169
Customer Contact Center

Inside Australia:

Phone: +61 (01300) 307 044

Fax: + 61 (01300) 307 045

Inside New Zealand:

Phone: +64 (0800) 543 353

Fax: +64 (0800) 428 570

Outside AU and NZ:

Phone: +61 (03) 9541 5555

www.bosch.com.au

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